

AMENDMENT TO THE CLAIMS

Claim 1. (currently amended) A miter saw, comprising:

a base;

~~a pivot~~ an arm;

a saw assembly attached to a first end of said ~~pivot~~ arm; and

a support housing connected to said base, said support housing including a pivot assembly, wherein

said ~~pivot~~ arm is slidably attached to said pivot assembly at a second end of said ~~pivot~~ arm; and

said pivot assembly comprises a pair of spaced-apart bearing surfaces engaged in a common track, said track having a substantially vertical portion and a substantially horizontal portion, wherein each of said bearing surfaces is enabled to traverse in each of said vertical portion and said horizontal portion ~~enables eccentric motion of said saw assembly with respect to said support housing.~~

Claim 2. (currently amended) The miter saw of claim 1, wherein said ~~pivot assembly comprises a pair of~~ pair of spaced-apart bearing surfaces comprise rolling bearings.

Claim 3. (currently amended) The miter saw of ~~claim 2, said pivot assembly further comprising:~~

~~a fixed arcuate track having said rolling bearings therein~~ claim 1, wherein said track makes a smooth transition from said substantially vertical portion to said substantially horizontal portion.

Claim 4. (currently amended) The miter saw of ~~claim 3, further comprising a pair of pivot pins connecting said rolling bearings to said pivot arm, wherein said rolling bearings are slidably engaged within said arcuate track~~ claim 1, wherein said track is sized and configured to enable both said bearing surfaces to traverse in said substantially vertical portion or said substantially horizontal portion simultaneously.

Claim 5. (withdrawn) The miter saw of claim 1, wherein said pivot assembly is selected from the group consisting of:

pulleys;
gears; and
cam assemblies.

Claim 6. (original) The miter saw of claim 1 said saw assembly further comprising:

a blade; and
a motor operatively connected to said blade.

Claim 7. (currently amended) A table saw, comprising:

a base;
a saw assembly pivotably mounted to said base, said saw assembly comprising:
an arm, moveable relative to said base; and
a pivot assembly operatively connected to said arm for moving said saw assembly in an eccentric arc in a plane perpendicular to said base, said pivot assembly comprising a pair of spaced-apart bearing surfaces engaged in a common track, said track having a

substantially vertical portion and a substantially horizontal portion, wherein each of said bearing surfaces is enabled to traverse in each of said vertical portion and said horizontal portion.

Claim 8. (currently amended) The table saw of claim 7, wherein said ~~pivot assembly comprises a pair of~~ pair of spaced-apart bearing surfaces comprise rolling bearings.

Claim 9. (currently amended) The table saw of ~~claim 8, said pivot assembly further comprising:~~ a fixed arcuate track having said rolling bearings therein claim 7, wherein said track makes a smooth transition from said substantially vertical portion to said substantially horizontal portion.

Claim 10. (currently amended) The table saw of ~~claim 9, further comprising a pair of pivot pins connecting said rolling bearings to said pivot arm, wherein said rolling bearings are slidably engaged within said arcuate track~~ claim 7, wherein said track is sized and configured to enable both said bearing surfaces to traverse in said substantially vertical portion or said substantially horizontal portion simultaneously.

Claim 11. (withdrawn) The table saw of claim 7, wherein said pivot assembly is selected from the group consisting of:

pulleys;

gears; and

cam assemblies.

Claim 12. (original) The table saw of claim 7, further comprising a rotatable cutting tool supported by said arm.

Claim 13. (original) The table saw of claim 12, said saw assembly further comprising:
a blade; and
a motor operatively connected to said blade.

Claim 14. (new) The miter saw of claim 1, wherein a pivot point for said arm, created by said pivot assembly is allowed to move in a predetermined path in a plane described by the saw assembly.

Claim 15. (new) The miter saw of claim 14, wherein said pivot point comprises a floating pivot.

Claim 16. (new) The miter saw of claim 1, wherein said saw assembly provides a cutting stroke in a downward vertical direction and in a horizontal direction.

Claim 17. (new) The table saw of claim 7, wherein a pivot point for said arm, created by said pivot assembly is allowed to move in a predetermined path in a plane described by the saw assembly.

Claim 18. (new) The table saw of claim 17, wherein said pivot point comprises a floating pivot.

Claim 19. (new) The table saw of claim 7, wherein said saw assembly provides a cutting stroke in a downward vertical direction and in a horizontal direction.